

### **Channel Six Interference Study**

In accordance with Section 73.525(a)(1) of the Commission's Rules, a study was conducted to determine whether the proposed facilities would affect any existing or proposed Channel 6 operations. The closest known Channel 6 operation is KCEN-TV, licensed to Temple-Waco, Texas, and is within 211 kilometers of the proposed operation.

F.C.C. 73.525(e)(3)(i) states that the population of areas within the Grade A Contour of a television translator station carrying the affected Channel 6 station in an area of interference to Channel 6 may be subtracted from the total count of population receiving interference from the Educational FM station. In this case, there is a translator (K63DL) which carries the KCEN-TV signal.

The applicant proposes to locate on an existing tower, 2.87 kilometers from the K63DL translator tower. Additionally, the applicant proposes to utilize Vertical polarization only. As shown in Figure 5, given the ERP and HAAT proposed in the instant application, the resultant interference area lies entirely within the Grade A contour (74 dBu) of K63DL. The interference area was calculated using a computer method which is in accordance with the procedures outlined in Section 73.525 of the Commission's Rules. The tabulated data utilized to prepare Figure 5 is presented in Figure 5A.

Accordingly, the affected population receiving interference from the proposed Educational FM station would therefore be zero pursuant to 73.525(e)(2) and 73.525(e)(3). Whereas the actual affected population residing within the interference area is less than 3,000 persons, it is believed that the facilities proposed in this amendment are substantially in compliance with all provisions of Section 73.525 of the Commission's Rules.

### Elevation and Contour Data

The average elevations from three to sixteen kilometers from the proposed site along the eight required radials were determined using a computer method in accordance with the procedures specified in Section 73.312(d), using the 30 Second Point Data File of the National Geophysical Data Center.

Figure 6 is a tabulation of average elevations, effective antenna heights and distances to the 60 dBu contour. The contour data of Figure 6 were determined through a computer method similar to the method outlined in Section 73.313 of the FCC Rules.

The proposed 1.0 mV/m (60 dBu) contour has been plotted from the data in Figure 6, and is shown on the coverage map attached as Figure 4.

### Non-Ionizing Radiation Calculations

In accordance with the Commission's Rules, an assessment was made of the proposed facility's radio frequency radiation levels. Table 1 of OST bulletin No. 65 (dated October, 1985) was utilized to determine that the proposed facility would not exceed any standards for radio frequency radiation as defined by ANSI C95.1-1982.

Applicant proposes to operate with an effective radiated power of .1 kw, vertical polarization only, with the center of radiation to be 61 meters above ground. According to worst case figures from Table 1 for FM, page 37 (OST Bulletin No. 65), the minimum height for an FM station operating with a power of .5 kw will be 4.1 meters above ground. As can be seen, the proposed operation will be 20% of this figure, at 61 meters above the ground, and will comply with the guidelines of OST-65. The tower is behind a locked fence, with no permitted access to the general public. Also, in compliance with

### Aeronautical and Environmental Impact Considerations

The proposed antenna installation would utilize an existing tower with no increase in height and would not have a significant environmental impact according to Section 1.1307 of the Commission's Rules.

According to information supplied by the applicant, the proposed site is not a subject of controversy locally on environmental grounds. The site is not believed to be near any officially designated wilderness area, wildlife preserve, or any culturally, historically, architecturally, or archaeologically significant feature.

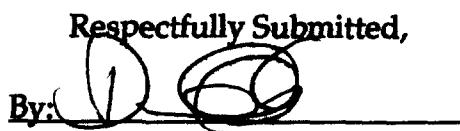
The site is not located in a floodplain, and no change in the character of the site is proposed as a part of the construction. No change in grade or land surface is proposed. The site will experience little or no change in human presence as a result of the proposed construction.

### Electromagnetic Compatibility

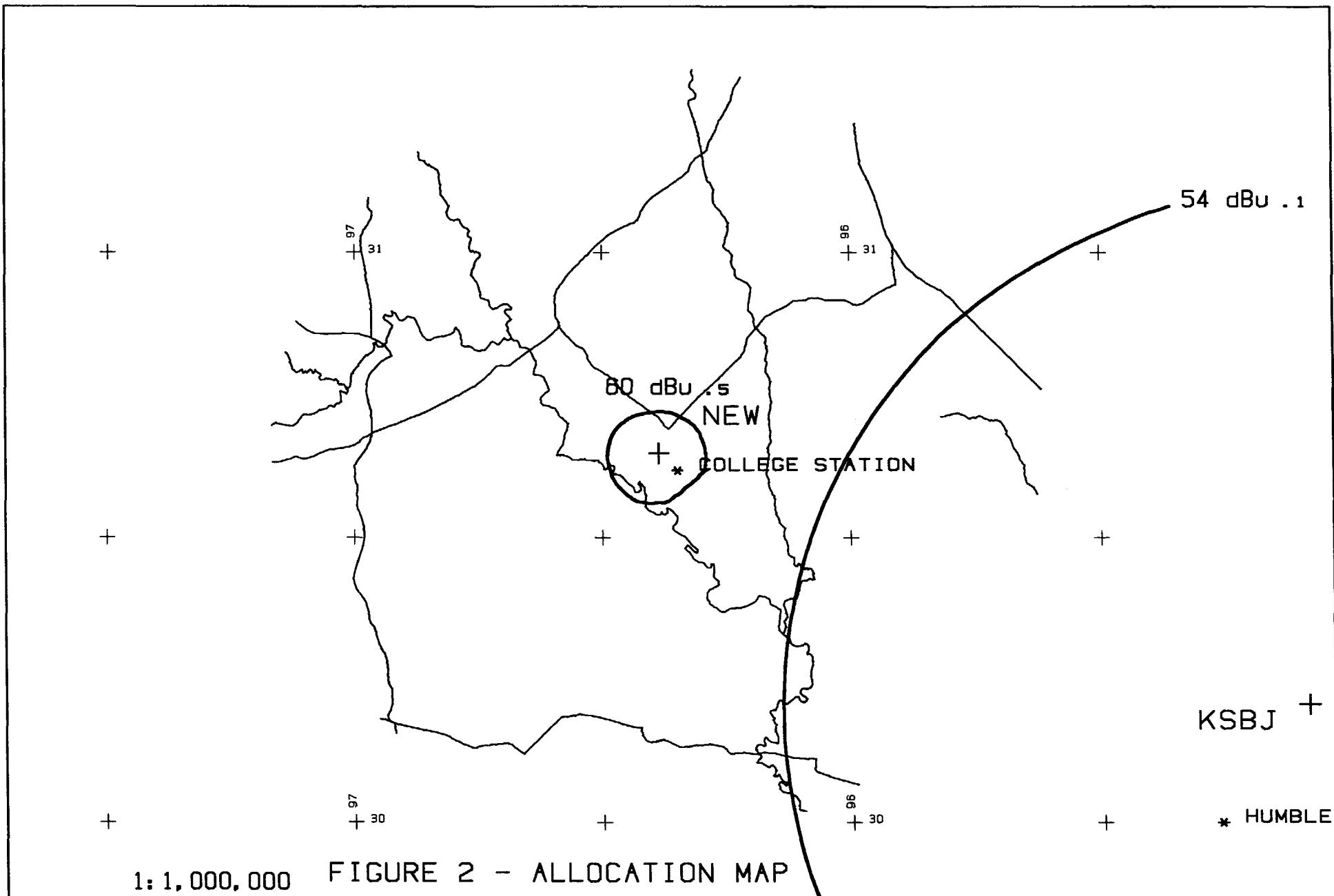
The electronic site proposed for use by the applicant is an authorized site for the following auxiliary radio services:

KNES565	929.86250 mhz	.125 kw
KOR890	35.34000 mhz	.5 kw
WHE470	2174.80000 mhz	.001 kw
WNYU344	460.77500 mhz	.205 kw

The proposed operation is not expected to cause any adverse effect on the existing auxiliary radio services located at or in the vicinity of the proposed antenna site. The applicant acknowledges its responsibility to correct any problems caused by intermodulation interference resulting from its proposed operation of Channel 206A, and hereby certifies that it will take full financial responsibility for resolving any interference related problems.

Respectfully Submitted,  
By:   
Donald E. Mussell Jr. NCE

July 12, 1993



1: 1,000,000 FIGURE 2 - ALLOCATION MAP

Scale in km	NEW Ch. 206A .1kW VERTICAL N. Lat. 30 38 48      W. Lng. 96 23 14	COLLEGE STATION, TX D. MUSSELL NCE - 07/93
0 10 20 30 40 50 60 70		

07-11-1993

Broadcast Engineering Services

(703) 886-5162

CH# 206A - 89.1 MHz

## FIGURE 3 - ALLOCATION AND INTERFERENCE STUDY

INTERFERENCE CHECKS WITH NEW, COLLEGE STATION, TX at N. LAT. 30 38 48 W. LNG. 96 23 14

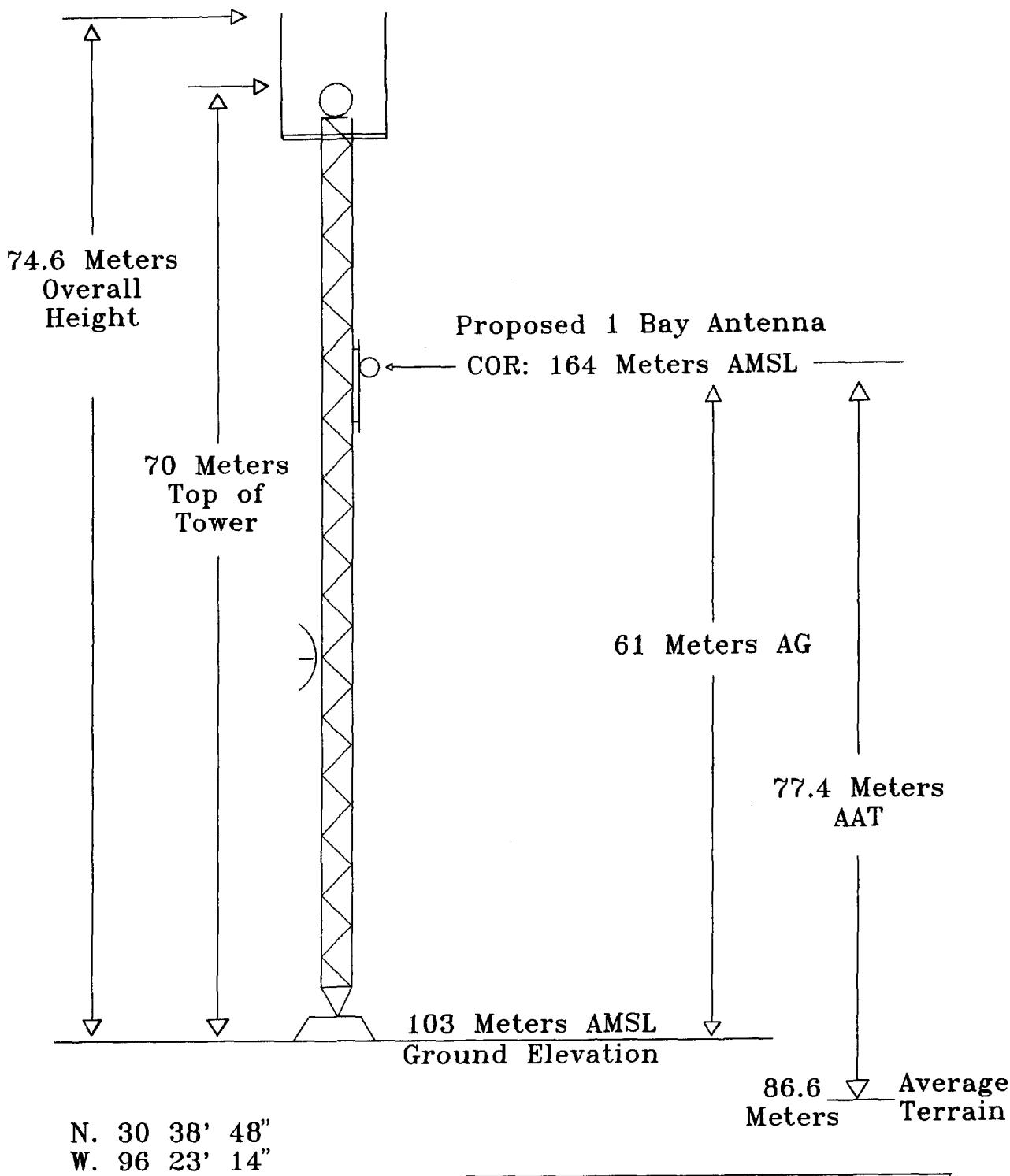
PWR = .1 kW H.A.A.T. = 77.4 M C.O.R. = 164 M AMSL

Protected F(50-50) 60 dBu = 9.09 km

F(50-10) 40 dBu = 30.13 54 dBu = 12.73 80 dBu = 2.82 100 dBu = .7

CH#	CALL	TYPE	* IN *	* OUT *	BEARING	DISTANCE	LAT.	PWR(kW)	INT(km)	PRO(km)
CITY		STATE	LICENSEE		<---		LNG.	HAAT(M)	COR(M)	FILE #
<hr/>										
204C	KUHF	LI CN	91.6	56.4	144.1	146.78 km	29 34 28	100.00	46.05	87.56
Houston		TX	University of Houston		324.1	91.20 Mi	95 29 37	514.0	533	BLED841101BY
205C1	XLDN	LI DCN	82.8	106.5	61.4	176.41 km	31 24 28	50.00	84.55	57.17
Lufkin		TX	Board of Supervisors of Lo		241.4	109.62 Mi	94 45 53	198.0	282	BLED910418KA
206C1	KSTX	LI CN	86.4	163.4	241.1	257.35 km	29 31 25	100.00	161.83	63.80
San Antonio		TX	Board of Directors of Texa		61.1	159.91 Mi	98 43 25	200.0	512	BLED890811KB
207C1	KSBJ	LI CN	24.0	52.3	111.4	133.71 km	30 12 26	100.00	100.64	68.65
Bumble		TX	Something Better Educ Foun		291.4	83.08 Mi	95 05 28	255.0	286	BLED871023KE
208C1	KMPA	LI CN	103.2	72.8	255.2	140.41 km	30 19 20	65.00	28.09	64.84
Austin		TX	Capitol Broadcasting Assoc		75.2	87.25 Mi	97 48 03	260.0	478	BLED921217KB
209A	AP209	AP CN	-7.2	-7.1	93.1	2.88 km	30 38 43	0.20	0.99	9.30
College Station		TX	Brazos Educational Radio		273.1	1.79 Mi	96 21 26	56.0	142	BPED920413MF
<hr/>										
i.f. RELATIONSHIPS:										
259A	KCEY.C	CP CN	10.0 R	61.8 M	85.4	71.84 km	30 41 57	3.00	2.27	24.22
Huntsville		TX	Helen Maryse Casey		265.4	44.64 Mi	95 38 24	100.0	192	BPH881222MB

- Nearest CH 6 Grade B -KCENTVat-20.59 km



**FIGURE 3A**  
**VERTICAL SKETCH**  
 New Educational FM Station  
 Ch. 206-A 0.100 kW Vertical  
 77.4 Meters AAT  
 Brazos Educational Radio  
 College Station, Texas

Attachment A

DOCUMENT OFF-LINE

This page has been substituted for one of the following:

- An oversize page or document (such as a map) which was too large to be scanned into the RIPS system.
- Microfilm, microform, certain photographs or videotape.
- Other materials which, for one reason or another, could not be scanned into the RIPS system.

The actual document, page(s) or materials may be reviewed by contacting an Information Technician. Please note the applicable docket or rulemaking number, document type and any other relevant information about the document in order to ensure speedy retrieval by the Information Technician.

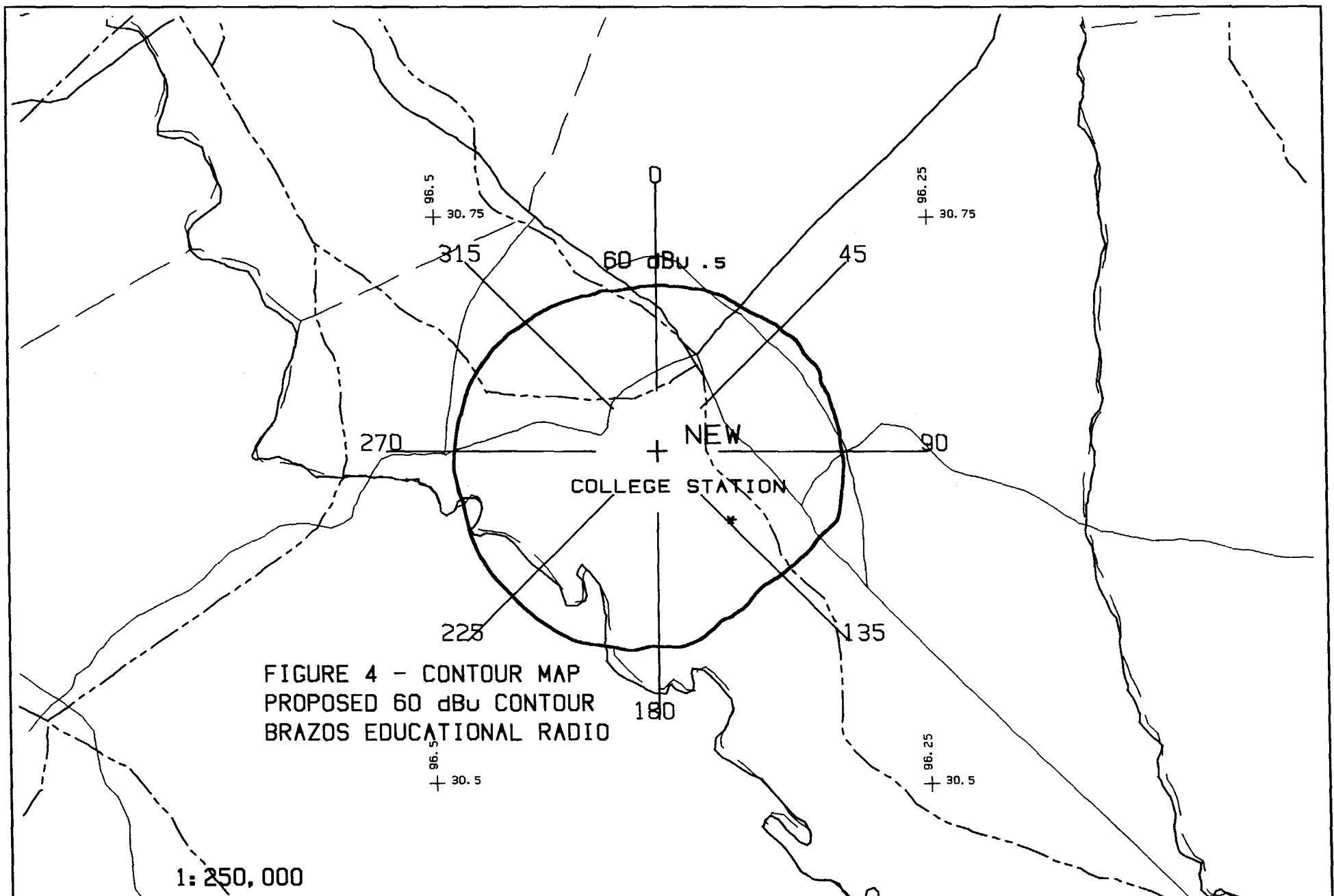


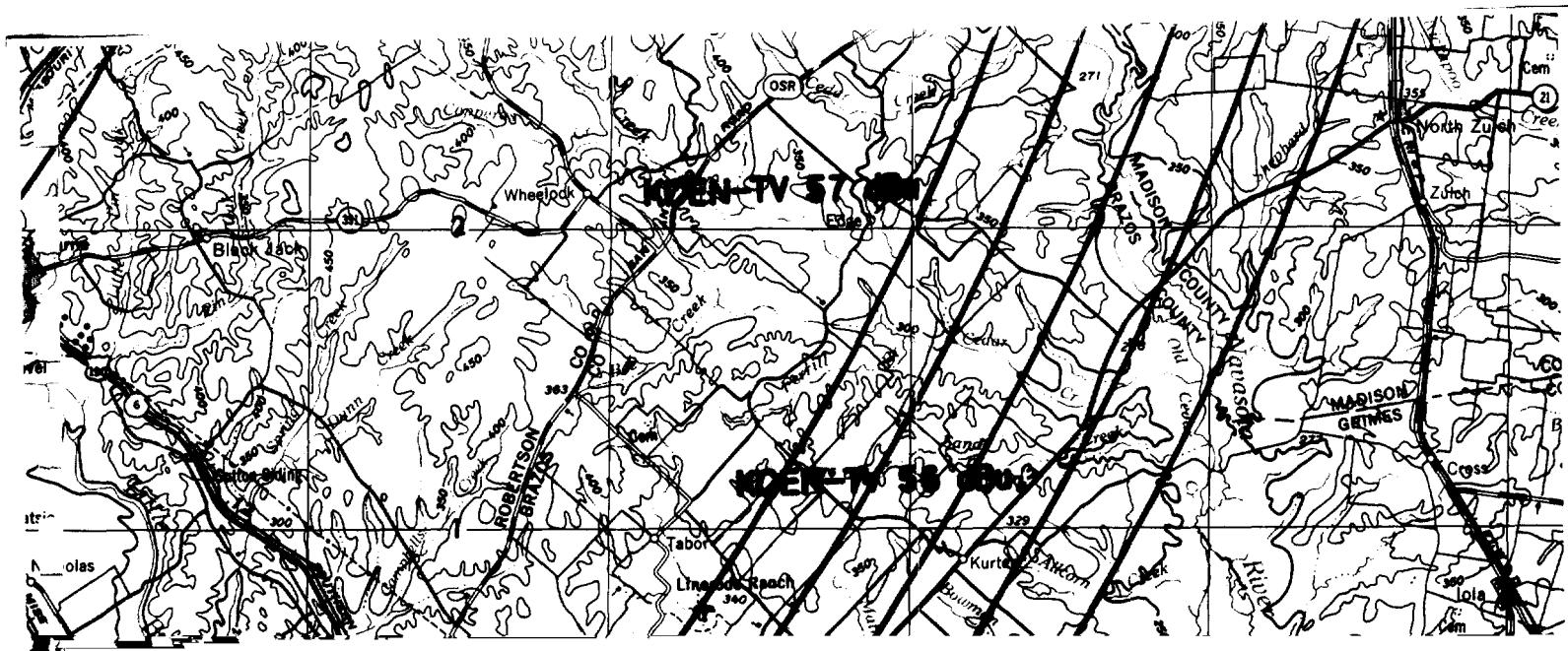
FIGURE 4 - CONTOUR MAP  
PROPOSED 60 dBu CONTOUR  
BRAZOS EDUCATIONAL RADIO

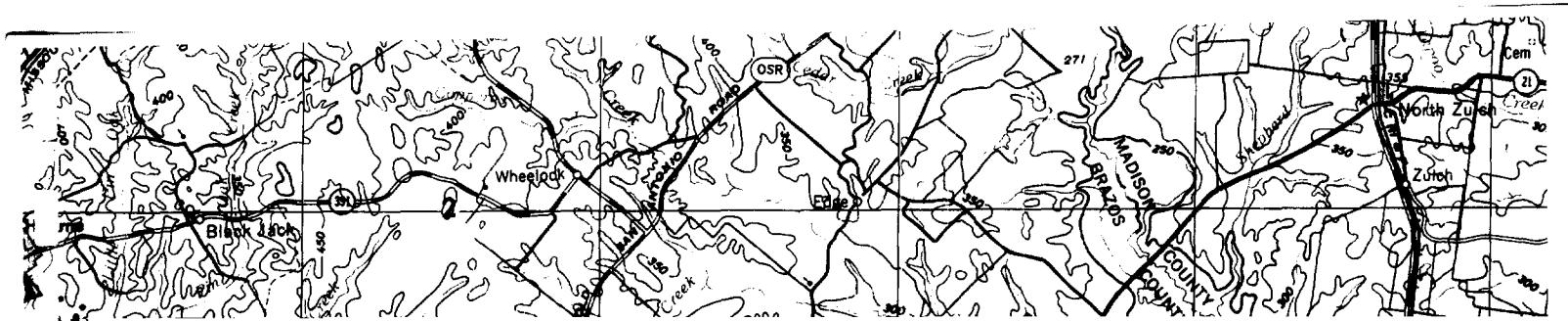
1: 250,000

Scale in km  
0 10 20

NEW 206A .1kW VERTICAL 77 MT. AAT  
N. Lat. 30 38 48 W. Lng. 96 23 14

COLLEGE STATION, TX  
D. MUSSELL NCE





**FIGURE 5A**  
**DATAWORLD, INC. TV-6 INTERFERENCE STUDY DATA**  
**AMENDMENT TO APPLICATION BPED-920413MF**  
**Ch. 206-A 0.100 kW VERTICAL POLARIZATION**  
**BRAZOS EDUCATIONAL RADIO**  
**COLLEGE STATION, TEXAS**  
Title: Brazos Educational Radio

Educational FM/TV Channel 6 Interference area

Interference	KCEN Channel 6					Proposed Ch. 206				
— Site —	C/R	573 m	AAT	C/R	77 m	AAT				
Lat	30-38-48	Latitude:	31-16-24	Latitude:	30-38-48					
Lon	96-23-14	Longitude:	97-13-14	Longitude:	96-23-14					

Bear. (deg)	Dist (km)	Bear. (deg)	Dist (km)	Haa <sup>t</sup>	ERP (m)	F.S. (kW)	U/D (dB)	Bear. (deg)	Dist (km)	Haa <sup>t</sup>	ERP (m)	F.S. (dBu)
.0	3.6	129.5	103	603	100	55.5	8.6	.0	3.60	62.2	.01	64.2
1.0	3.6	129.5	103	603	100	55.5	8.7	1.0	3.61	62.3	.01	64.1

FIGURE 5A - Page 2  
DATAWORLD, INC. TV-6 INTERFERENCE STUDY DATA  
AMENDMENT TO APPLICATION BPED-920413MF  
Ch. 206-A 0.100 kW VERTICAL POLARIZATION  
BRAZOS EDUCATIONAL RADIO  
COLLEGE STATION, TEXAS

Educational FM/TV Channel 6 Interference area

Interference	— KCEN Channel 6 —					— Proposed Ch. 206 —				
— Site —	C/R	573 m	AAT	C/R	77 m	AAT				
Lat 30-38-48	Latitude:	31-16-24		Latitude:	30-38-48					
Lon 96-23-14	Longitude:	97-13-14		Longitude:	96-23-14					

Bear.	Dist	Bear.	Dist	Haat	ERP	F.S.	U/D	Bear.	Dist	Haat	ERP	F.S.
(deg)	(km)	(deg)	(km)	(m)	(kW)	(dBu)	(dB)	(deg)	(km)	(m)	(kW)	(dBu)
41.0	3.8	129.0	106	603	100	54.7	9.2	41.0	3.81	67.7	.01	63.9
42.0	3.8	129.0	106	603	100	54.7	9.2	42.0	3.81	67.8	.01	63.9
43.0	3.8	129.0	106	603	100	54.6	9.2	43.0	3.82	67.9	.01	63.9
44.0	3.8	129.0	106	603	100	54.6	9.3	44.0	3.82	68.1	.01	63.9
45.0	3.8	129.0	106	603	100	54.6	9.3	45.0	3.83	68.2	.01	63.8
46.0	3.8	129.0	106	603	100	54.6	9.3	46.0	3.84	68.4	.01	63.8
47.0	3.8	129.0	106	603	100	54.6	9.3	47.0	3.84	68.4	.01	63.8

**FIGURE 5A - Page 3**  
**DATAWORLD, INC. TV-6 INTERFERENCE STUDY DATA**  
**AMENDMENT TO APPLICATION BPID-920413MF**  
**Ch. 206-A 0.100 kW VERTICAL POLARIZATION**  
**BRAZOS EDUCATIONAL RADIO**  
**COLLEGE STATION, TEXAS.**

**FIGURE 5A - Page 4**  
**DATAWORLD, INC. TV-6 INTERFERENCE STUDY DATA**  
**AMENDMENT TO APPLICATION EPED-920413MF**  
**Ch. 206-A 0.100 kW VERTICAL POLARIZATION**  
**BRAZOS EDUCATIONAL RADIO**  
**COLLEGE STATION, TEXAS**

**Educational FM/TV Channel 6 Interference area**

Interference — KCEN Channel 6 —	— Proposed Ch. 206 —
— Site —	C/R 77 m AAT
Lat 30-38-48	Latitude: 31-16-24
Lon 96-23-14	Longitude: 97-13-14

Bear.	Dist	Bear.	Dist	Haa	HP	F.S.	U/D	Bear.	Dist	Haa	HP	F.S.
(deg)	(km)	(deg)	(km)	(m)	(kW)	(dBu)	(dB)	(deg)	(km)	(m)	(kW)	(dBu)
124.0	4.0	130.8	110	603	100	53.3	10.2	124.0	3.96	69.9	.01	63.5
125.0	4.0	130.8	110	603	100	53.3	10.2	125.0	3.96	69.7	.01	63.5
126.0	3.9	130.8	110	603	100	53.3	10.2	126.0	3.95	69.5	.01	63.5
127.0	3.9	130.9	110	603	100	53.3	10.2	127.0	3.95	69.4	.01	63.5
128.0	3.9	130.9	110	603	100	53.3	10.2	128.0	3.94	69.2	.01	63.5
129.0	3.9	130.9	110	603	100	53.3	10.2	129.0	3.94	69.0	.01	63.5
130.0	3.9	131.0	110	603	100	53.3	10.2	130.0	3.93	68.8	.01	63.5
131.0	3.9	131.0	110	603	100	53.3	10.2	131.0	3.93	68.6	.01	63.5
132.0	3.9	131.0	110	603	100	53.3	10.2	132.0	3.92	68.4	.01	63.5
133.0	3.9	131.1	110	603	100	53.3	10.2	133.0	3.92	68.2	.01	63.5
134.0	3.9	131.1	110	603	100	53.3	10.1	134.0	3.91	68.1	.01	63.5
135.0	3.9	131.2	110	603	100	53.3	10.1	135.0	3.91	67.9	.01	63.5
136.0	3.9	131.2	110	603	100	53.3	10.1	136.0	3.92	68.3	.01	63.5
137.0	3.9	131.2	110	603	100	53.3	10.1	137.0	3.93	68.6	.01	63.5
138.0	3.9	131.3	110	603	100	53.3	10.1	138.0	3.94	69.0	.01	63.5
139.0	3.9	131.3	110	603	100	53.3	10.1	139.0	3.95	69.4	.01	63.5
140.0	4.0	131.3	110	603	100	53.3	10.1	140.0	3.96	69.8	.01	63.5
141.0	4.0	131.4	110	603	100	53.3	10.1	141.0	3.96	70.2	.01	63.5
142.0	4.0	131.4	110	603	100	53.3	10.1	142.0	3.97	70.6	.01	63.5
143.0	4.0	131.4	110	603	100	53.3	10.1	143.0	3.98	71.0	.01	63.5
144.0	4.0	131.5	110	603	100	53.3	10.1	144.0	3.99	71.3	.01	63.5
145.0	4.0	131.5	110	603	100	53.3	10.1	145.0	4	71.7	.01	63.5
146.0	4.0	131.6	110	603	100	53.3	10.1	146.0	4.01	72.1	.01	63.5
147.0	4.0	131.6	110	603	100	53.3	10.1	147.0	4.02	72.5	.01	63.5
148.0	4.0	131.6	110	603	100	53.3	10.1	148.0	4.03	72.9	.01	63.5
149.0	4.0	131.7	110	603	100	53.4	10.1	149.0	4.04	73.3	.01	63.5
150.0	4.1	131.7	110	603	100	53.4	10.1	150.0	4.05	73.6	.01	63.5
151.0	4.1	131.7	109	603	100	53.4	10.1	151.0	4.06	74.0	.01	63.5
152.0	4.1	131.8	109	603	100	53.4	10.1	152.0	4.06	74.4	.01	63.5
153.0	4.1	131.8	109	603	100	53.4	10.1	153.0	4.09	74.8	.01	63.5
154.0	4.1	131.9	109	603	100	53.4	10.1	154.0	4.10	75.2	.01	63.5
155.0	4.1	131.9	109	603	100	53.4	10.1	155.0	4.11	75.6	.01	63.5
156.0	4.1	131.9	109	603	100	53.4	10.1	156.0	4.12	76.0	.01	63.5
157.0	4.1	132.0	109	603	100	53.4	10.1	157.0	4.13	76.3	.01	63.5
158.0	4.1	132.0	109	603	100	53.4	10.1	158.0	4.14	76.7	.01	63.5
159.0	4.2	132.0	109	602	100	53.4	10.1	159.0	4.15	77.1	.01	63.5
160.0	4.2	132.1	109	602	100	53.4	10.1	160.0	4.16	77.5	.01	63.5
161.0	4.2	132.1	109	602	100	53.4	10.1	161.0	4.17	77.9	.01	63.5
162.0	4.2	132.1	109	602	100	53.4	10.1	162.0	4.18	78.3	.01	63.5
163.0	4.2	132.2	109	602	100	53.4	10.1	163.0	4.19	78.6	.01	63.5
164.0	4.2	132.2	109	602	100	53.5	10.1	164.0	4.19	79.0	.01	63.5
165.0	4.2	132.2	109	602	100	53.5	10.1	165.0	4.20	79.4	.01	63.5
166.0	4.2	132.3	109	602	100	53.5	10.0	166.0	4.21	79.8	.01	63.5

**FIGURE 5A - Page 5**  
**DATAWORLD, INC. TV-6 INTERFERENCE STUDY DATA**  
**AMENDMENT TO APPLICATION BPED-920413MF**  
**Ch. 206-A 0.100 kW VERTICAL POLARIZATION**  
**BRAZOS EDUCATIONAL RADIO**  
**COLLEGE STATION, TEXAS**

## **Educational FM/TV Channel 6 Interference area**

**Interference — KCEN Channel 6 —**      **— Proposed Ch. 206 —**  
**— Site —** C/R 573 m AAT      C/R 77 m AAT  
**Lat 30-38-48** Latitude: 31-16-24      Latitude: 30-38-48  
**Lon 96-23-14** Longitude: 97-13-14      Longitude: 96-23-14

Bear. Dist Bear. Dist Haat ERP F.S. U/D Bear. Dist Haat ERP F.S.  
 (deg) (km) (deg) (km) (m) (kW) (dBm) (dB) (deg) (km) (m) (kW) (dBm)

**FIGURE 5A - Page 6**  
**DATAWORLD, INC. TV-6 INTERFERENCE STUDY DATA**  
**AMENDMENT TO APPLICATION BPED-920413MF**  
**Ch. 206-A 0.100 kW VERTICAL POLARIZATION**  
**BRAZOS EDUCATIONAL RADIO**  
**COLLEGE STATION, TEXAS**

Educational FM/TV Channel 6 Interference area

Interference	<b>KCEN Channel 6</b>	<b>Proposed Ch. 206</b>
— Site —	C/R 573 m AAT	C/R 77 m AAT
Lat 30-38-48	Latitude: 31-16-24	Latitude: 30-38-48
Lon 96-23-14	Longitude: 97-13-14	Longitude: 96-23-14

Bear. (deg)	Dist (km)	Bear. (deg)	Dist (km)	Haa <sup>t</sup> (m)	ERP F.S. (kW)	U/D (dBu)	Bear. (deg)	Dist (km)	Haa <sup>t</sup> (m)	ERP F.S. (kW)	(dBu)	
210.0	4.4	133.4	107	602	100	54.4	9.4	210.0	4.43	91.0	.01	63.8
211.0	4.4	133.4	107	602	100	54.4	9.4	211.0	4.44	91.2	.01	63.8
212.0	4.4	133.4	106	602	100	54.4	9.4	212.0	4.44	91.3	.01	63.8
213.0	4.4	133.4	106	602	100	54.4	9.4	213.0	4.44	91.5	.01	63.8
214.0	4.4	133.4	106	602	100	54.5	9.4	214.0	4.44	91.7	.01	63.8
215.0	4.5	133.4	106	602	100	54.5	9.3	215.0	4.45	91.9	.01	63.8
216.0	4.5	133.4	106	602	100	54.5	9.3	216.0	4.45	92.1	.01	63.8
217.0	4.5	133.4	106	602	100	54.5	9.3	217.0	4.45	92.3	.01	63.8
218.0	4.5	133.4	106	601	100	54.5	9.3	218.0	4.45	92.5	.01	63.8

**FIGURE 5A - Page 7**  
**DATAWORLD, INC. TV-6 INTERFERENCE STUDY DATA**  
**AMENDMENT TO APPLICATION BPED-920413MF**  
**Ch. 206-A 0.100 kW VERTICAL POLARIZATION**  
**BRAZOS EDUCATIONAL RADIO**  
**COLLEGE STATION, TEXAS**

**Educational FM/TV Channel 6 Interference area**

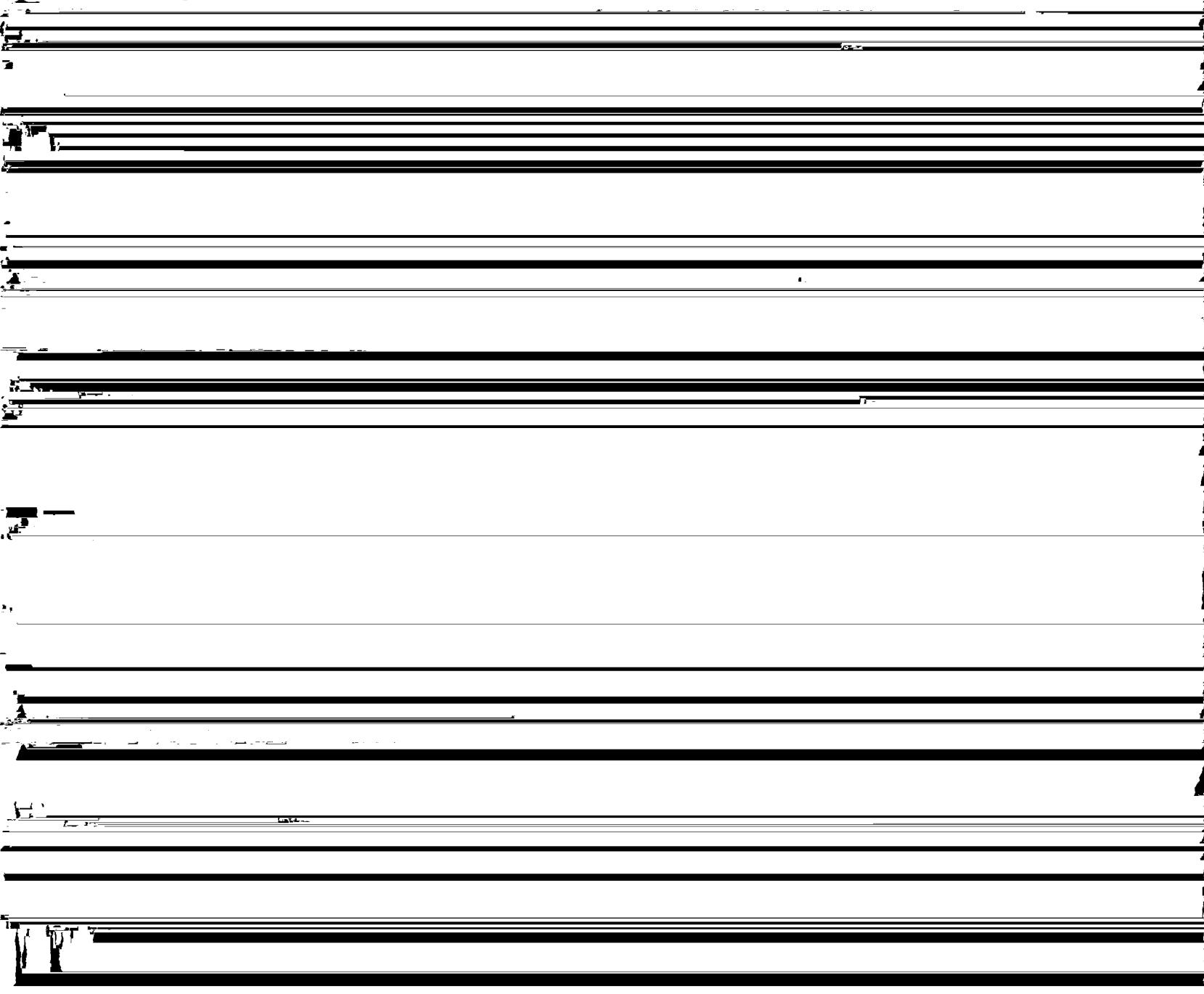
<b>Interference — KCRN Channel 6 —</b>		<b>Proposed Ch. 206 —</b>
<b>— Site —</b>	C/R 573 m AAT	C/R 77 m AAT
Lat 30-38-48	Latitude: 31-16-24	Latitude: 30-38-48
Lon 96-23-14	Longitude: 97-13-14	Longitude: 96-23-14

Bear.	Dist	Bear.	Dist	Haa	HRP	F.S.	U/D	Bear.	Dist	Haa	HRP	F.S.
(deg)	(km)	(deg)	(km)	(m)	(kW)	(dBu)	(dB)	(deg)	(km)	(m)	(kW)	(dBu)
253.0	4.4	133.1	103	602	100	55.5	8.7	253.0	4.36	92.0	.01	64.2
254.0	4.4	133.1	103	602	100	55.5	8.7	254.0	4.36	91.9	.01	64.2
255.0	4.4	133.0	103	602	100	55.5	8.6	255.0	4.36	91.9	.01	64.2
256.0	4.3	133.0	103	602	100	55.6	8.6	256.0	4.35	91.8	.01	64.2
257.0	4.3	133.0	103	602	100	55.6	8.6	257.0	4.35	91.7	.01	64.2
258.0	4.3	133.0	103	602	100	55.6	8.6	258.0	4.35	91.7	.01	64.2
259.0	4.3	132.9	103	602	100	55.6	8.6	259.0	4.34	91.6	.01	64.2
260.0	4.3	132.9	103	602	100	55.6	8.6	260.0	4.34	91.5	.01	64.2
261.0	4.3	132.9	103	602	100	55.7	8.6	261.0	4.33	91.5	.01	64.2
262.0	4.3	132.9	103	602	100	55.7	8.5	262.0	4.33	91.4	.01	64.2
263.0	4.3	132.8	103	602	100	55.7	8.5	263.0	4.33	91.3	.01	64.2
264.0	4.3	132.8	103	602	100	55.7	8.5	264.0	4.32	91.3	.01	64.2
265.0	4.3	132.8	103	602	100	55.7	8.5	265.0	4.32	91.2	.01	64.2
266.0	4.3	132.7	103	602	100	55.8	8.5	266.0	4.32	91.1	.01	64.2
267.0	4.3	132.7	103	602	100	55.8	8.5	267.0	4.31	91.1	.01	64.3
268.0	4.3	132.7	103	602	100	55.8	8.5	268.0	4.31	91.0	.01	64.3
269.0	4.3	132.6	103	602	100	55.8	8.5	269.0	4.31	90.9	.01	64.3
270.0	4.3	132.6	102	602	100	55.8	8.4	270.0	4.30	90.9	.01	64.3
271.0	4.3	132.6	102	602	100	55.9	8.4	271.0	4.29	90.5	.01	64.3
272.0	4.3	132.5	102	602	100	55.9	8.4	272.0	4.28	90.1	.01	64.3
273.0	4.3	132.5	102	602	100	55.9	8.4	273.0	4.27	89.8	.01	64.3
274.0	4.3	132.5	102	602	100	55.9	8.4	274.0	4.26	89.4	.01	64.3
275.0	4.2	132.4	102	602	100	55.9	8.4	275.0	4.25	89.1	.01	64.3
276.0	4.2	132.4	102	602	100	55.9	8.4	276.0	4.24	88.7	.01	64.3
277.0	4.2	132.4	102	602	100	55.9	8.4	277.0	4.23	88.3	.01	64.3
278.0	4.2	132.3	102	602	100	56.0	8.4	278.0	4.22	88.0	.01	64.3
279.0	4.2	132.3	102	602	100	56.0	8.4	279.0	4.21	87.6	.01	64.3
280.0	4.2	132.3	102	602	100	56.0	8.4	280.0	4.20	87.3	.01	64.3
281.0	4.2	132.2	102	602	100	56.0	8.4	281.0	4.19	86.9	.01	64.3
282.0	4.2	132.2	102	602	100	56.0	8.3	282.0	4.18	86.5	.01	64.3
283.0	4.2	132.1	102	602	100	56.0	8.3	283.0	4.17	86.2	.01	64.3
284.0	4.2	132.1	102	602	100	56.0	8.3	284.0	4.16	85.8	.01	64.3
285.0	4.2	132.1	102	602	100	56.0	8.3	285.0	4.15	85.5	.01	64.3
286.0	4.1	132.0	102	602	100	56.0	8.3	286.0	4.14	85.1	.01	64.3
287.0	4.1	132.0	102	603	100	56.0	8.3	287.0	4.13	84.8	.01	64.3
288.0	4.1	132.0	102	603	100	56.1	8.3	288.0	4.12	84.4	.01	64.3
289.0	4.1	131.9	102	603	100	56.1	8.3	289.0	4.11	84.0	.01	64.3
290.0	4.1	131.9	102	603	100	56.1	8.3	290.0	4.10	83.7	.01	64.4
291.0	4.1	131.8	102	603	100	56.1	8.3	291.0	4.09	83.3	.01	64.4
292.0	4.1	131.8	102	603	100	56.1	8.3	292.0	4.08	83.0	.01	64.4
293.0	4.1	131.8	102	603	100	56.1	8.3	293.0	4.07	82.6	.01	64.4
294.0	4.1	131.7	102	603	100	56.1	8.3	294.0	4.06	82.2	.01	64.4
295.0	4.1	131.7	102	603	100	56.1	8.3	295.0	4.05	81.9	.01	64.4

**FIGURE 5A - Page 8**  
**DATAWORLD, INC. TV-6 INTERFERENCE STUDY DATA**  
**AMENDMENT TO APPLICATION BPED-920413MF**  
**Ch. 206-A 0.100 kW VERTICAL POLARIZATION**  
**BRAZOS EDUCATIONAL RADIO**  
**COLLEGE STATION, TEXAS**

Educational FM/TV Channel 6 Interference area

Interference — KCEN Channel 6 —      Proposed Ch. 206 —  
— Site — C/R 573 m AAT      C/R 77 m AAT  
Lat: 30-38-48      Latitude: 31-16-24      Latitude: 30-38-48



**FIGURE 5A - Page 9**  
**DATAWORLD, INC. TV-6 INTERFERENCE STUDY DATA**  
**AMENDMENT TO APPLICATION EPPD-920413MF**  
**Ch. 206-A 0.100 kW VERTICAL POLARIZATION**  
**BRAZOS EDUCATIONAL RADIO**  
**COLLEGE STATION, TEXAS**

**Educational FM/TV Channel 6 Interference area**

Interference — KCEN Channel 6 —	— Proposed Ch. 206 —
— Site — C/R 573 m AAT	C/R 77 m AAT
Lat 30-36-48	Latitude: 31-16-24
Lon 96-23-14	Longitude: 97-13-14

Bear. (deg)	Dist (km)	Bear. (deg)	Dist (km)	HaaT (m)	ERP (kW)	U/D (dBu)	Bear. (deg)	Dist (km)	HaaT (m)	ERP (kW)	F.S. (dB)
339.0	3.7	130.1	102	603	100	55.9	8.4	339.0	3.72	68.0	.01
340.0	3.7	130.0	102	603	100	55.9	8.4	340.0	3.72	67.8	.01
341.0	3.7	130.0	102	603	100	55.9	8.4	341.0	3.71	67.5	.01
342.0	3.7	130.0	102	603	100	55.8	8.4	342.0	3.71	67.2	.01
343.0	3.7	129.9	103	603	100	55.8	8.5	343.0	3.70	66.9	.01
344.0	3.7	129.9	103	603	100	55.8	8.5	344.0	3.69	66.6	.01
345.0	3.7	129.9	103	603	100	55.8	8.5	345.0	3.69	66.4	.01
346.0	3.7	129.9	103	603	100	55.8	8.5	346.0	3.68	66.1	.01
347.0	3.7	129.8	103	603	100	55.8	8.5	347.0	3.68	65.8	.01
348.0	3.7	129.8	103	603	100	55.8	8.5	348.0	3.67	65.5	.01
349.0	3.7	129.8	103	603	100	55.7	8.5	349.0	3.66	65.3	.01
350.0	3.7	129.8	103	603	100	55.7	8.5	350.0	3.66	65.0	.01
351.0	3.7	129.7	103	603	100	55.7	8.5	351.0	3.65	64.7	.01
352.0	3.7	129.7	103	603	100	55.7	8.5	352.0	3.65	64.4	.01
353.0	3.6	129.7	103	603	100	55.7	8.6	353.0	3.64	64.2	.01
354.0	3.6	129.7	103	603	100	55.7	8.6	354.0	3.64	63.9	.01

FIGURE 5A - Page 10  
DATAWORLD, INC. TV-6 INTERFERENCE STUDY DATA  
AMENDMENT TO APPLICATION BPID-920413MR  
Ch. 206-A 0.100 kW VERTICAL POLARIZATION  
BRAZOS EDUCATIONAL RADIO  
COLLEGE STATION, TEXAS

Population Within Coverage Area

Title: Brazos Educational Radio

Coordinates: 30-38-48 96-23-14

#1  
Area of  
Interf.

bear. Dist. (deg)	(km)
.0	3.6
5.0	3.6
10.0	3.7
15.0	3.7
20.0	3.7
25.0	3.7
30.0	3.8
35.0	3.8
40.0	3.8
45.0	3.8
50.0	3.9
55.0	3.9
60.0	3.9
65.0	4.0
70.0	4.0
75.0	4.0
80.0	4.1
85.0	4.1
90.0	4.1
95.0	4.1
100.0	4.1
105.0	4.0
110.0	4.0
115.0	4.0
120.0	4.0
125.0	4.0
130.0	3.9
135.0	3.9
140.0	4.0
145.0	4.0
150.0	4.1
155.0	4.1
160.0	4.2
165.0	4.2
170.0	4.2
175.0	4.3
180.0	4.3
185.0	4.4
190.0	4.4
195.0	4.4
200.0	4.4
205.0	4.4
210.0	4.4

FIGURE 5A - Page 11  
DATAWORLD, INC. TV-6 INTERFERENCE STUDY DATA  
AMENDMENT TO APPLICATION BPED-920413MF  
Ch. 206-A 0.100 kW VERTICAL POLARIZATION  
BRAZOS EDUCATIONAL RADIO  
COLLEGE STATION, TEXAS

Population Within Coverage Area

215.0	4.5
220.0	4.5
225.0	4.5
230.0	4.5
235.0	4.4
240.0	4.4
245.0	4.4
250.0	4.4
255.0	4.4
260.0	4.3
265.0	4.3
270.0	4.3
275.0	4.2
280.0	4.2
285.0	4.2
290.0	4.1
295.0	4.1
300.0	4.0
305.0	4.0
310.0	3.9
315.0	3.9
320.0	3.8
325.0	3.8
330.0	3.8
335.0	3.8
340.0	3.7
345.0	3.7
350.0	3.7
355.0	3.6

**FIGURE 5A - Page 12**  
**DATAWORLD, INC. TV-6 INTERFERENCE STUDY DATA**  
**AMENDMENT TO APPLICATION BPED-920413MF**  
**Ch. 206-A 0.100 kW VERTICAL POLARIZATION**  
**BRAZOS EDUCATIONAL RADIO**  
**COLLEGE STATION, TEXAS**  
**Population count based on 1990 Census**

**Listing frequency: Totals for each minor civil division.**

**1990 Census data totals will be included.**

**Title: Brazos Educational Radio                          Coordinates: 30-38-48 96-23-14**

**Area of  
Interf.**

**Brazos County, Texas**

Bryan city (pt.)	23
r/o West Brazos division (pt.)	312
Bryan city (pt.)	24,636
College Station city (pt.)	53
r/o West Brazos division (pt.)	571

**Totals for Brazos County (1990 Census): 25,595**

**Totals for Texas (1990 Census): 25,595**

**Total Population (1990 Census): 25,595**

**Area (Square km): 51.9**

**FIGURE 6**  
**ELEVATION AND CONTOUR DATA**  
**BRAZOS EDUCATIONAL RADIO**

ERP = .1 kW  
 FM - 2-6 Tables

Azimuth Deg T.	Ave. Elev. 3 to 16 km Meters AMSL	Effective Antenna Height Meters AAT	ERP (dBk)	F(50-50) 60 dBu Contour km	Distance to
0	101.8	62.2	-10.000	8.1	
45	95.8	68.2	-10.000	8.5	
90	87.8	76.2	-10.000	9.0	
135	96.1	67.9	-10.000	8.5	
180	78.7	85.3	-10.000	9.5	
225	70.2	93.8	-10.000	10.0	
270	73.1	90.9	-10.000	9.9	
315	89.2	74.8	-10.000	8.9	

Ave. = 86.6 M                    77.4 M

Antenna Radiation Center AMSL = 164.0 M

Geographic Coordinates:

North latitude: 30 38 48  
 West longitude: 96 23 14

**AFFIDAVIT AND QUALIFICATIONS OF  
DONALD E. MUSELL JR.**

State of Virginia)  
Staunton      )  
County of Augusta)

Donald E. Mussell Jr. affirms that he is a consulting radio and electronics engineer; that he is Certified as a Broadcast Engineer, Class 1, by the National Association of Radio and Telecommunications Engineers, Inc.; That he held a First Class Radiotelephone License from 1975 until 1985, when it was replaced by a lifetime General Class Radiotelephone license (PG-12-20588), issued by the Federal Communications Commission in January of 1985; that the foregoing report was prepared by him or under his direction; and that the statements contained therein are true to his own personal knowledge except those stated to be on information and belief, and as to those statements, he verily believes them to be true.



Donald E. Mussell Jr. N.C.E.  
July 12, 1993

**CERTIFICATE OF SERVICE**

I, Harry F. Cole, hereby certify that, on this 16th day of July, 1993, I caused to be placed in the U.S. mail, first class postage prepaid, copies of the foregoing "Petition for Leave to Amend, Grant of Applications and Termination of Proceeding" addressed to the following:

The Honorable John M. Frysiak  
Federal Communications Commission  
2000 L Street, N.W. - Room 223  
Washington, D.C. 20554  
(BY HAND)

Charles Dziedzic, Chief  
James Shook, Esquire  
Hearing Branch, Enforcement Division  
Mass Media Bureau  
Federal Communications Commission  
2025 M Street, N.W. - Room 7212  
Washington, D.C. 20554  
(BY HAND)

Chief, Data Management Staff  
Audio Services Division  
Mass Media Bureau  
Federal Communications Commission  
1919 M Street, N.W. - Room 350  
Washington, D.C. 20554